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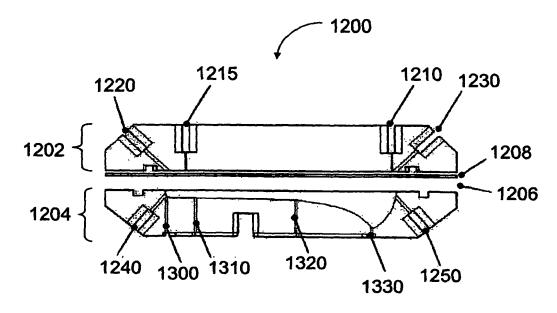
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[Continued on next page]

(54) Title: ELECTROPHORETIC DEVICE COMPRISING SEPARATION CHAMBER, NON-UNIFORM ELECTRODE CHAMBER, AND A POROUS MEMBRANE BETWEEN THEM



(57) Abstract: An electrophoretic device comprises a separation chamber and an electrode chamber, which is non-uniform. The electrode chamber includes two or more electrodes or may include an electrode array. Molecular sieve may be included in the separation chamber, and the molecular sieve is operative to shift the location at which a stationary focused band of a charged analyte forms under a given set of focusing process parameters. Such systems are especially suitable for linking up analytical instruments in a hyphenated fashion, particularly where the instruments have differing system parameters.

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INDERNATIONAL SEARCH REPORT

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A. CLASSIF	FICATION OF SUBJECT MATTER G01N27/447								
According to	International Petent Classification (IPC) or to both national classific	cation and IPC							
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T	ENTS CONSIDERED TO BE RELEVANT								
Category *	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.						
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X Furti	ther documents are listed in the continuation of box C.	X Patent family	y members are listed in annex.						
	stegories of cited documents :		sublished after the international filing date						
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the International filling date but		or priority date an cited to understa invention "X" document of partic cannot be consic involve an invent of partic cannot be consic document of partic cannot be consic document is comments, such comin the art.	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled						
	actual completion of the international search		of the international search report						
1	l6 July 2004		2 6. 07. 2004						
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer							

IMMERNATIONAL SEARCH REPORT

Internal Application No PCT/US 03/38170

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	continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
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Χ .	US 2002/043462 A1 (HUANG ZHENG ET AL) 18 April 2002 (2002-04-18)	21-23, 26,27, 32, 34-46, 50,52, 54-56, 71-84				
•	paragraphs '0052!, '0112!, '0113!, '0144!; claims 15,43; figures 1,2	9,13-16, 59-61, 66,67				
X	KOEGLER WENDY S ET AL: "Field gradient focusing: A novel method for protein separation" BIOTECHNOLOGY PROGRESS, vol. 12, no. 6, 1996, pages 822-836, XP002277720 ISSN: 8756-7938	1,5-8, 10,11, 17-23, 26, 28-33, 39-53, 55-57, 62-65, 68,70				
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	figure 1					
X	EP 1 044 716 A (CAHILL MICHAEL DR; NORDHEIM ALFRED PROF DR (DE); DRUKIER ANDRZEY DR () 18 October 2000 (2000-10-18) figure 3	21,24, 25, 71-73, 85,86				

INTERNATIONAL SEARCH REPORT

PCT/US 03/38170

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
	The state of the s
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20, 57-70

Electrophoretic device with separation chamber, non-uniform electrophoresis chamber, and porous membrane between them

2. claims: 21-56, 71-86

Electrophoresis device with sample treatment devices at the inlet and the outlet of the separation chamber

page 2 of 2

INSERNATIONAL SEARCH REPORT

*Information on patent family members

Interplonal Application No PCT/US 03/38170

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